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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,080	01/24/2002	Abdul Malik	0152.00424	3341

21901 7590 07/16/2004

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EXAMINER

THERKORN, ERNEST G

ART UNIT PAPER NUMBER

1723

DATE MAILED: 07/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/057,080	Applicant(s) MALIK ET AL.	
	Examiner Ernest G. Therkorn	Art Unit 1723	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) 10-22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sawada (Electrophoresis, 20, 1999 pages 24-30). The claims are considered to read on Sawada (Electrophoresis, 20, 1999 pages 24-30). However, if a difference exists between the claims and Sawada (Electrophoresis, 20, 1999 pages 24-30), it would reside in optimizing the elements of Sawada (Electrophoresis, 20, 1999 pages 24-30). It would have been obvious to optimize the elements of Sawada (Electrophoresis, 20, 1999 pages 24-30) to enhance separation.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guo (Anal. Chem. 1995, 67, 2511-2516) in view of Snyder, (Introduction to Modern Liquid Chromatography, John Wiley & Sons, New York (1979), pages 278-280) and Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995)). At best, the claims differ

Art Unit: 1723

from Guo (Anal. Chem. 1995, 67, 2511-2516) in reciting use of a charged coating. Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995) (Abstract) discloses substituting octadecyldimethyl(propylsilyl) ammonium groups for C₁₈ leads to unique chromatographic selectivity. A fair reading of Snyder, (Introduction to Modern Liquid Chromatography, John Wiley & Sons, New York (1979), pages 278-280) would indicate that Guo (Anal. Chem. 1995, 67, 2511-2516)'s C₈ and Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995)'s C₁₈ compounds are in the same family of reversed phase compounds. It would have been obvious to use octadecyldimethyl(propylsilyl) ammonium groups in Guo (Anal. Chem. 1995, 67, 2511-2516) because Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995) (Abstract) discloses substituting octadecyldimethyl(propylsilyl) ammonium groups for C₁₈ leads to unique chromatographic selectivity and a fair reading of Snyder, (Introduction to Modern Liquid Chromatography, John Wiley & Sons, New York (1979), pages 278-280) would indicate that Guo (Anal. Chem. 1995, 67, 2511-2516)'s C₈ and Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995)'s C₁₈ compounds are in the same family of reversed phase compounds.

Claims 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guo (Anal. Chem. 1995, 67, 2511-2516) in view of Snyder, (Introduction to Modern Liquid Chromatography, John Wiley & Sons, New York (1979), pages 278-280) and Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995) as applied to claims 1-9 above, and further in view of Frechet (U.S. Patent No. 5,431,807). At best, the claims differ from Guo (Anal. Chem. 1995, 67, 2511-2516) in view of Snyder, (Introduction to

Art Unit: 1723

Modern Liquid Chromatography, John Wiley & Sons, New York (1979), pages 278-280) and Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995) in reciting use of multiple modes. Frechet (U.S. Patent No. 5,431,807) (column 4, lines 52-58, column 6, lines 62-63, column 12, lines 30-31, and column 18, lines 58-60) discloses that combining reversed phase groups and ion exchange groups on a single support allows for separation without changing columns or media and is different very gentle toward proteins. It would have been obvious to use reversed phase groups with ion exchange groups in Guo (Anal. Chem. 1995, 67, 2511-2516) in view of Snyder, (Introduction to Modern Liquid Chromatography, John Wiley & Sons, New York (1979), pages 278-280) and Zhang (Journal of Liquid Chromatography, 18(17), 2273-3396 (1995) because Frechet (U.S. Patent No. 5,431,807) (column 4, lines 52-58, column 6, lines 62-63, column 12, lines 30-31, and column 18, lines 58-60) discloses that combining reversed phase groups and ion exchange groups on a single support allows for separation without changing columns or media and is different very gentle toward proteins.

Claims 10-13 have been withdrawn from consideration as being drawn to a non-elected species.

Claims 14-22 have been withdrawn from consideration as being drawn to non-elected inventions.

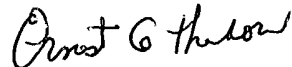
The remarks urge that the restriction is improper because there is no serious burden on the examiner. However, examining the additional inventions would require searching additional subclasses and have different issues of patentability. As such, examining the additional inventions would be an enormous burden on the examiner.

Art Unit: 1723

Accordingly, the restriction requirement and election of species requirements have been reconsidered, deemed proper, and made final for the reasons of record.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Ernest G. Therkorn
Primary Examiner
Art Unit 1723

EGT
July 13, 2004